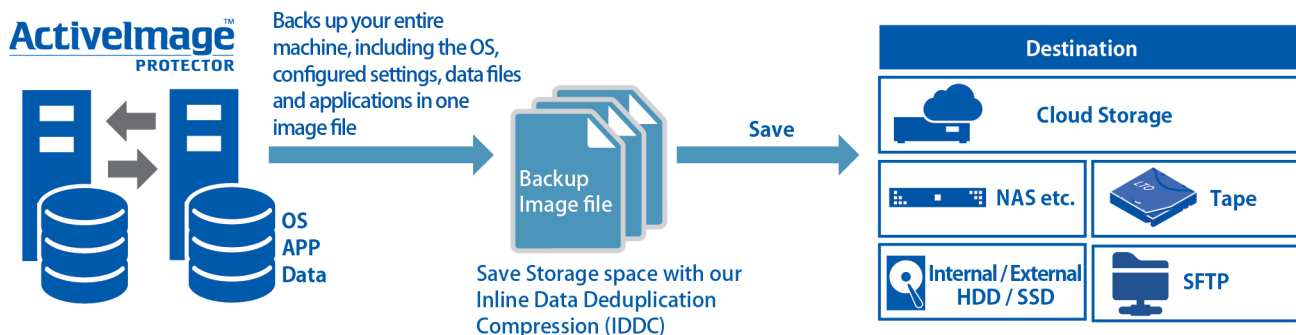


What is ActiveImage Protector™ Cluster?

Data / System Protection Solution optimized for Cluster Environment

ActiveImage Protector™ Cluster flexibly supports failover cluster environments such as Windows Server Failover Clustering. ActiveImage Protector™ Cluster backs up the entire hard disk on computer, including the operating system on cluster-configured nodes, along with all your applications and data, clustered volume (mirror volume), quorum resource, etc., in a backup image file. Incremental backup supports CSV volumes shared among nodes, enabling to continue incremental backup chains of CSV volumes on the other node even when the owner backup node of CSV volumes shifts to another node. When an emergency arises, wizard-driven interface guides you through the recovery of the entire cluster system. Save your backups to any available storage location depending on the system configuration or intended use of the backup files, including cloud storages or LTO tape offering advantages in data portability and long storage as well as commonly used NAS.



Provides support for Disaster Countermeasures and Security Measures

ActiveImage Protector™, a disaster recovery solution, is designed to provide “a fast and successful recovery”, and is useful for disaster recovery. ActiveImage Protector™ backs up your entire hard disk including the operating system in a single operation. In the event of a hardware failure of the backup source machine, the system can be restored to a different physical machine or a virtual machine. Immediate start-up of a virtual machine from a backup image file enables you to resume the server operation. Even with a small number of specialized engineers, recovery work can be completed in a short time and RTO can be reduced.

New Features of ActiveImage Protector™ 2022 (May 2022 Update)

Extended File Backup feature :

This update additionally provides File Exclusion option and Network Shared Folder Backup feature.

VNC on RescueBoot :

ActiveImage Protector™ comes with RescueBoot feature enabling system recovery in the event of emergency without the use of external device. VNC viewer is now provided to remotely operate RescueBoot boot environment. System administrator can now restore the failed system in RescueBoot via VNC instead of local PC.

Enhanced LTO Tape Manager :

Tape Manager feature in this update provides enhanced management operation of tape pool and library, allowing to move tapes within LTO tape library, rescanning tapes on library, etc.

Enhanced installer :

When installation fails, rollback operation is supported for cancelled installation. Update installation is now allowed while a backup task is being executed.

Backup Features

Image file based backup of the entire hard disk

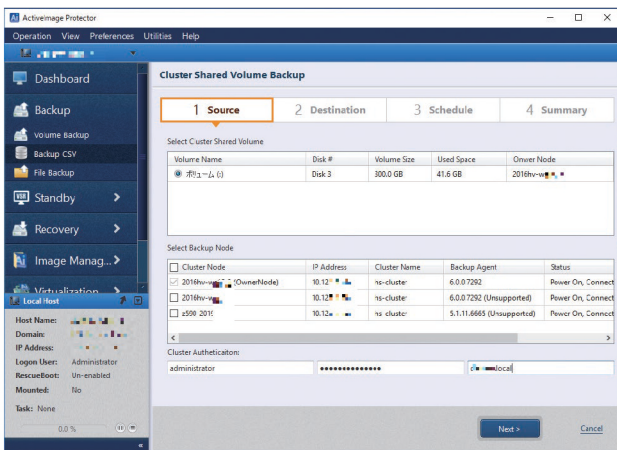
ActiveImage Protector™ backs up your entire machine, including the OS, configured settings, data files and applications in one image file. When disaster strikes, select a backup image to quickly restore for a fast and complete recovery.

Supports the latest version OS, uEFI compatible motherboard

The latest version of Windows Server 2022 is supported. Backup and recovery features support GPT disk in uEFI boot system.

Incremental backup of CSVFS volumes

Cluster Shared Volume File System (CSVFS) volumes can be backed up incrementally. Even when failover from the backup node to the other node takes place, ActiveImage Protector™ maintains incremental backup continuity of CSVFS volumes on the other node.



Fast Incremental Backup

Fast and efficient incremental backup includes only sectors that have changed from the last backup, saving both process time and storage space. ActiveImage Protector™ only runs backup tasks according to the predefined schedule, minimizing the consumption of the system resources on the machine.



A variety of storage media are supported

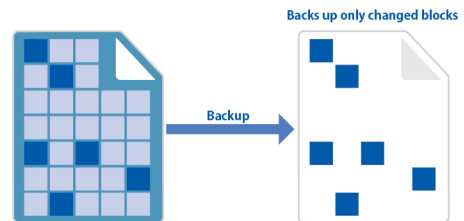
Save your backups to any available storage location, including NAS, SAN (fibre channel), USB, eSATA, network shared folders, LTO tape, cloud storages, etc., supporting a variety of system configuration and backup policies.

Encryption of Backup Images

ActiveImage Protector™ can create password-protected and encrypted backup images and supports up to 256 bit encryption.

New features of File Backup New !

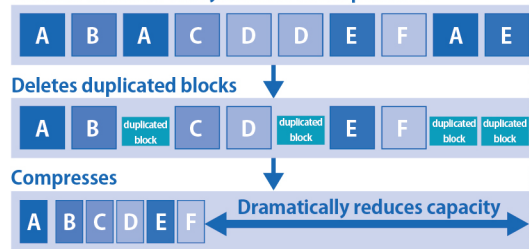
ActiveImage Protector™ provides File Backup enabling to back up granularly selected files and folders. Incremental Backup includes only changes made in a file saving storage space. File Exclusion and Network Shared Folder Backup features are additionally provided.



Save storage space with IDDC

Our Inline Data Deduplication Compression (IDDC) feature eliminates duplicate data while simultaneously compressing it, resulting in a significant reduction in backup storage requirements. Backup using IDDC does not increase the overall backup processing time (according to our test results: 27 hours to back up 11.7 TB data). You do not need to purchase an optional tool or an expensive storage offering de-duplication feature. No special configuration settings or operation are required.

Creates index for every block of backup stream



Hot-Imaging backup for live machines

ActiveImage Protector™ backs up your entire machine, including the OS, applications and data files, while the machine is active and running without stopping the services including database or open files. The hot-imaging backup is useful especially when backing up the system and the data frequently updated throughout the day and night on non-stop server.

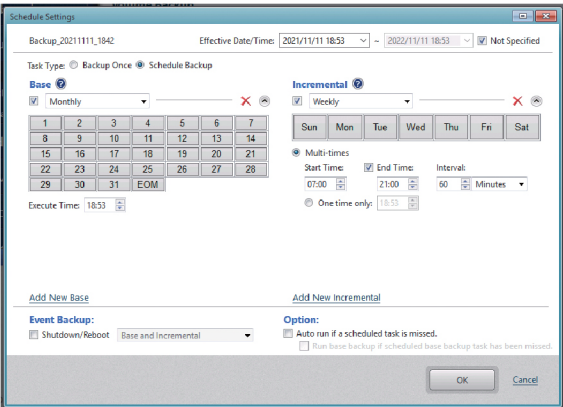
Cold-Imaging backup for static machines

ActiveImage Protector™ may be booted from the product media to create a backup image of a clean static system volume (immediately after installation of OS). Cold-imaging backup saving the point-in-time state of the failed system is convenient to examine the cause of the system failure.

Backup Options

Schedule backup

Backup tasks can be automatically executed according to the one-time, weekly or monthly schedule, or a specific day of a week in a specific month. Also, you can schedule the first baseline backup and recurring incremental backup tasks to run subsequently. You are provided with the options including Retention Policy enabling to keep only predefined number of backup image generation sets for storage space saving, USB SmartDetect™ detecting disconnected USB backup disk and resume skipped backups once the disk is reconnected, etc.



Flexible Multi-Scheduling Feature

Multiple schedules can be defined for individual backup tasks. For example, you can create a new full backup each month for an ongoing Weekly Schedule backup task.

Image Retention Policy

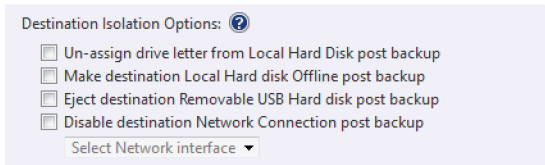
The use of Retention Policy feature allows you to automatically delete the obsolete backup image set when the number of backup image sets reaches the preset limitation and reduce the storage space requirements.

Automatic backup at shutdown

Due to time constraints you might have missed the timing of backing up your system though you recognized the need. ActiImage Protector™ supports automatic backup when a machine is shutting down and you are leaving the office every day.

Upon completion of backup task, protect the destination (Destination Isolation Option)

Our Imagselolate™ technology reduces potential malware or ransomware attacks by disconnecting access to a backup storage drives after backups complete.



Scripting

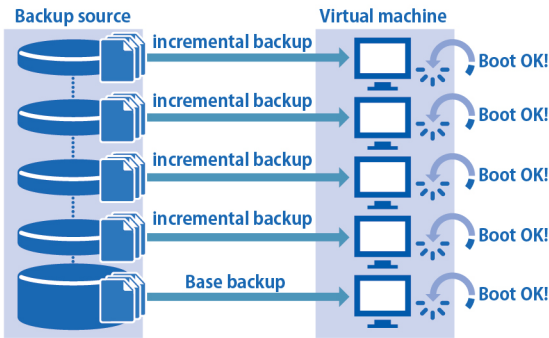
Scripts can be implemented to run before and/or after snapshots are taken or after the backup image has been created. An example would be to execute a user-specified script to purge database cache before taking a snapshot and resume database after taking a snapshot (before starting a backup task), a script to copy / edit the created backup image file, etc. Scripts can be implemented respectively for a base backup and incremental backup tasks.

Post-backup Process

Runs BootCheck™, Replication and Consolidation tasks upon completion of a backup task or at a specified time.

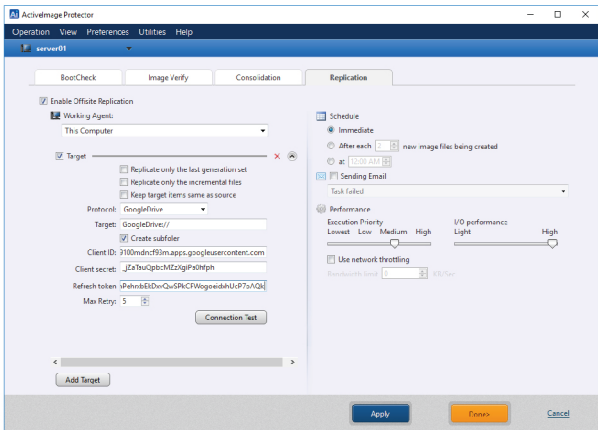
Automated backup "bootability" testing : BootCheck™

BootCheck™ provides confidence that your backup images are bootable on local or remote Hyper-V host. BootCheck™ boots up a virtual machine directly from a backup image file for quick bootability check, minimizing the resource consumption and start-up time. You can manually select ActiImage Protector™ backup image for bootability check from the console at any timing.



Offsite Replication supports cloud storages

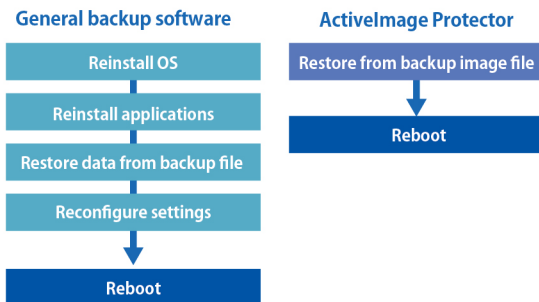
Replication target supports a local storage, a Network Shared folder, FTP, FTPS, SFTP, WebDAV, Amazon S3, Azure Storage, OneDrive, Google Drive, Dropbox.



Restore Features

Fast and full-state recovery from disk image-based backup

In the event of a system failure due to hard disk failure, the traditional lengthy recovery process involved the reinstallation of OS and applications, data recovery, etc. ActiImage Protector™ is a sector-based disk imaging backup / recovery solution and the built-in wizards guide you through every steps to perform required operations for recovery from the backup image file. Select the most up-to-date incremental backup file and your system is restored to the most updated state.



Fast Bare Metal Recovery

ActiImage Protector™’s lightning-fast restore engine dramatically speeds up recovery time. Bare Metal Recovery provides capabilities for initializing and creating partitions on the bare metal disk.

File Recovery feature

In the event of a system failure, as is often the case, you may only need specific files to restore in order to restart your duties. File Recovery feature allows you to restore a specific file or a folder from a backup image file on ActiImage Protector™’s GUI. Then, the stream information and access rights assigned to files, which Copy File feature of Mount Image often fails to recover, are inclusively restored.

Architecture Intelligent Restore

A.I.R.* can restore physical machines from ActiImage Protector™’s backup image files to different hardware. A.I.R. can also restore entire disks and/or selected volumes.

*A.I.R. (Architecture Intelligent Restore) can restore and migrate between different physical machines.

Enlarge or reduce target volumes or partitions during recovery

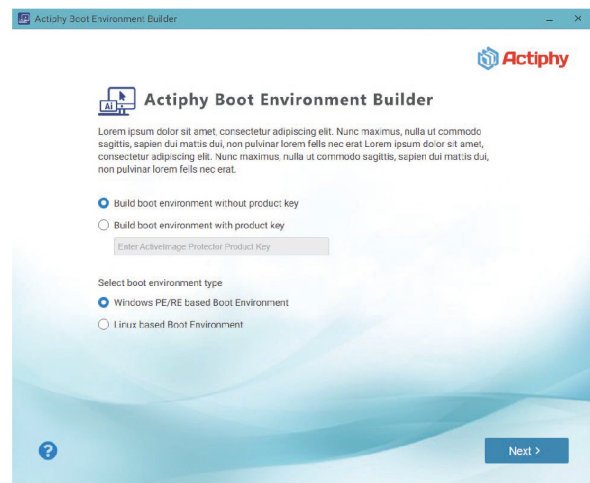
NTFS volume may be restored to a volume in specified size larger or smaller than the source volume (NTFS volume only).

Repair Boot Configuration

Recovery of BCD in MBR is supported on boot environment. In case that you failed to back up boot partition in the partition table, or that restored “C:” drive alone failed to boot up the system, the use of “Repair Boot Configuration” tool enables to restore BCD for the restored system to be bootable.

Actiphy BE Builder

ActiImage Protector™ comes with boot environment builder for building Windows PE-based and Linux Debian-based boot environment and creating bootable media by selecting USB flash memory, USB hard disk, ISO image file or optical media as well as the product media. You can also create a standard Windows RE-based boot environment without installing Windows ADK. Boot Environment Builder allows you to add a specific device driver in the bootable media, if you use a hardware of which driver is not included in the product media. If your note PC does not come with an optical media drive, the use of bootable USB flash memory or USB hard disk drive offers bare metal recovery option. When building boot environment on USB hard disk / SSD hard disk, the backup destination partition can be allocated. Backup in the boot environment media can be conveniently used to restore the failed system.



RescueBoot

Adds an optional boot recovery environment to the system boot menu. ActiImage Protector Boot Environment (boot environment) is directly launched from the internal disk drive without using external media, allowing you to restore the system on a tablet PC that does not come with an optical media drive or USB port.

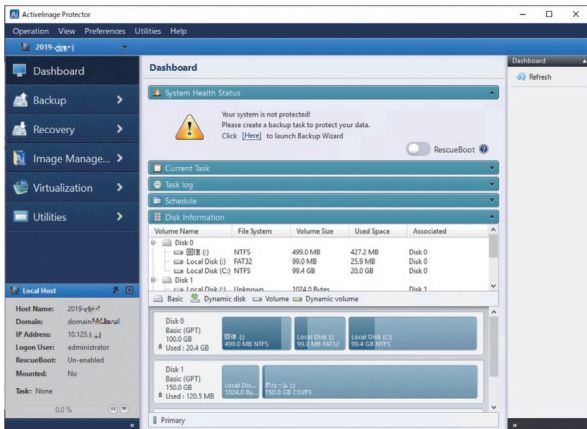
VNC on RescueBoot New!

The new VNC on RescueBoot feature enables system recovery in the event of emergency without the use of external device. VNC viewer is now provided to remotely operate RescueBoot boot environment. System administrator can now restore the failed system in RescueBoot via VNC instead of local PC.

Operation

ActiImage Protector™'s GUI provides tools for efficient operations

ActiImage Protector™'s GUI provides dashboard window enabling real time monitoring of the status of tasks, logs, schedules and disk information. Backup / Restore wizards windows make the software operation more intuitive.



Client management console for easy administration of backup agents

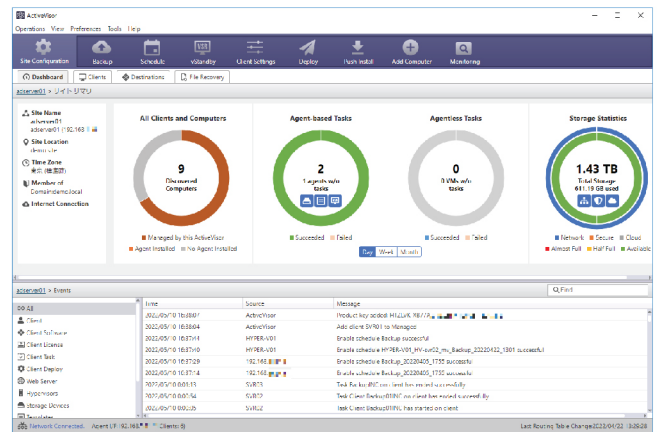
The use of Client management console enables to manage ActiImage Protector™ agents installed on remote computers.

- You can monitor the status of remote agents over the network, start execution of backup tasks from console and establish connection to remote console.
- One-click offers execution of scheduled backup tasks on remote network computers.

- Free evaluation version of Actipty software installed on remote network computers can be upgraded to a full product version from console.

ActiveVisor, add-on Centralized Management Console for ActiImage Protector™

ActiveVisor™ provides a centralized management tool for ActiImage Protector™ by monitoring networked client computers on which ActiImage Protector™ agents are installed. Centralized management operation includes auto-discovery of managed computers, push-installing ActiImage Protector™ agents, creating and deploying templates of backup tasks / configuration files, real-time monitoring of backup status list, obtaining information of ActiImage Protector™ agents on managed computers / OS / hardware inventory, remote operation of ActiImage Protector™ agents, etc.



Virtual Environment

Enhanced support for virtual environments (V2P, V2V & P2V)

ActiImage Protector™ provides the virtualization from physical machines to virtual machines (Hyper-V, ESXi) or vice versa. The virtualization process includes the installation of the driver required for booting the virtual machine.

Virtual conversion utility

Virtual conversion utility is provided to convert a backup image file to virtual disk bootable as virtual machine. Conversion to the latest virtual disk format, VMware VMDK, Hyper-V VHD, VHDX is supported.

Virtualization Adapter

The driver for virtual machine can be injected into the current image file, which is saved as the differential file (.aix) of ActiImage Protector™. The differential file may be restored to a virtual machine.

P2V (physical to virtual) conversion directly to virtual environments

P2V conversion supports Hyper-V or VMware ESXi as the target host to create the virtual machine attached with a converted virtual disk, enabling to immediately boot up the virtual machine.

P2V (physical to virtual) conversion directly from hard disk

P2V conversion feature supports direct conversion from a hard disk to a virtual disk bypassing P2V conversion from an image file which saves the process time.

Support for P2V (physical to virtual) disk on Windows PE

Conversion from physical to virtual disk (conversion to virtual disk only) is supported in Windows PE-based boot environment.

Image Management

Image Explorer

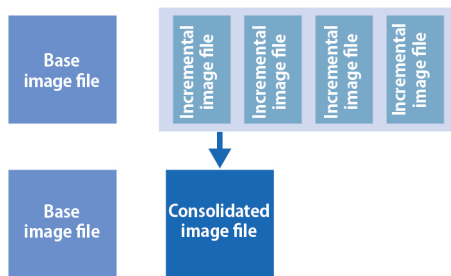
Installed as a Windows Explorer extension, Image Explorer allows you to browse and copy files and folders from ActiveImage Protector™ image file without requiring a full image mount, saving your time and system resources. This will allow you to restore individual files or folder.

Image Mount (Granular File and Folder Recovery)

ActiveImage Protector™ can quickly mount an image file as a drive, allowing you to extract any files or folders contained in the image file. When image file is mounted as a writable drive, the changes made on the drive will be saved as differential files.

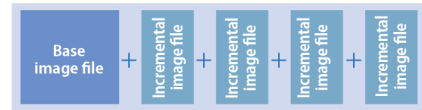
Consolidation of Backup Files

Consolidate incremental backups into a single incremental file to save storage space and for easier management.



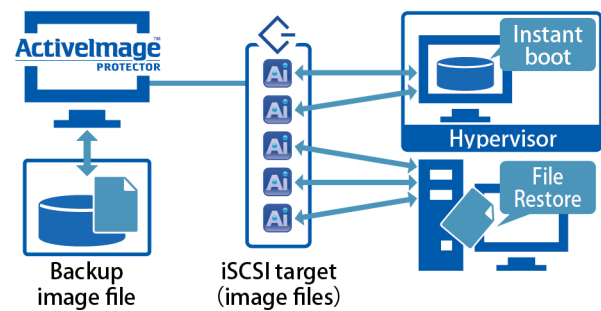
Archive Backup Files

Use the archive (unification) feature to unify a full base image file and all associated incremental files into a single backup file.



iSCSI Serves Backup Image Files as iSCSI Targets, NFS (Network File System) server

ActiveImage Protector™ now utilizes iSCSI or NFS server to serve backup images as iSCSI targets to any local or remote iSCSI initiator for mounting backup images as local disks, or as NFS server to access backup images as VMDK file from NFS client; not only providing a method to recover files and folders from a backup, but provides immediate booting of a backup image attached to a virtual machine on hypervisor.



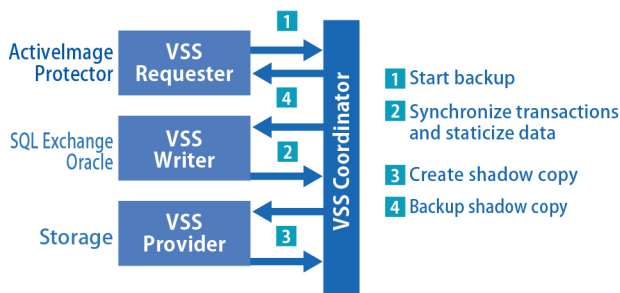
Snapshot Driver

Standard Snapshot Driver (Volsnap)

ActiveImage Protector™ uses Microsoft's standard Volsnap snapshot driver. No additional drivers need to be installed.

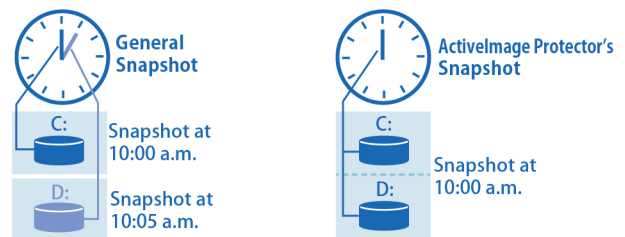
Backup of VSS-aware server applications

Create consistent backup of Microsoft VSS (Volume Shadow Copy Service)-aware server applications such as SQL Server, Exchange Server and Oracle.



Point-in-time multi-volume snapshots

ActiveImage Protector™ offers superior recoverability of databases spread across multiple volumes by taking a point-in-time snapshot of all volumes at the same time, thus ensuring consistency and recoverability. If database spanning across multiple volumes, backup by volume causes the inconsistency of the data in the backup images due to the difference in starting times between the backups. Restoring inconsistent backup images results in an inconsistent database. ActiveImage Protector™ solves this problem by taking a point-in-time snapshot of all the volumes.



When the snapshot of database index file is created for every volume, the backup among volumes is not synchronized.

The snapshots of all volumes can be created at a time.

Enhanced License Management Feature

Offline License File

The use of offline license file enables license activation on a standalone PC without internet connection. ActiPhy Authentication Service (AAS) acts as a Standalone Licensing server for computers grouped over intranet without requiring a persistent internet connection.

Offers New Subscription License

Annual, three-year, five-year subscription and perpetual licenses are now available. Annual support contract fee will be deducted from the subscription fee.

*Annual support contract fee will be deducted from the three-year and five-year subscription fee.

Others

Supports the latest files systems

The latest file systems including ReFS (Resilient File System), Storage Space and 4K sector disk are supported.

The Installer enables to create MSI file

The Installer enables to create an MSI file containing the product key dedicated to auto-distribution via Active Directory's Group Policy.

USB SmartDetect™

Automatically detects when your USB backup disk is not connected and will prompt you to resume your backups once the disk is reconnected. Even when multiple USB hard disks are specified as the destination to save backup images, USB SmartDetect feature can be enabled.

Faster and smaller backup with Smart Sector technology

ActiImage Protector™'s Smart Sector technology only backs up the used sectors on a disk, resulting in faster backup and smaller backup files.

Support for hardware RAID

Backup / recovery of hardware RAID is supported.

Command line execution support

Most of ActiImage Protector™'s features can be used by specifying parameters for command line tool or with command file. ActiImage Protector™'s CLI allows backups to be seamlessly administered by system management tools, if any, by using prepared script file.

Disk-To-Disk Copy

Disk-to-disk copy is used when migrating data from a hard disk to a large-capacity disk or to an SSD. The Disk-to-disk Copy feature can select the entire disk or a specific volume to copy, or copy to a higher capacity disk or volume. Data volumes from different disks can be combined using disk-to-disk copy for a new single disk.

Monitor task log entries in Windows Event Log Viewer

Every task events are now recorded in the Windows event log to provide better integration into the Windows Management Interface for a more unified experience.

Email Notification

Email notification can be sent (using SSL/TSL) to an email address of your choice. Notifications include successfully completed backups, backup failure, or in the event that ActiImage Protector™ encounters an error, a restart or failure. Email notification may be set to inform you of the summary of task execution and license status (expiration of the license period).

Bad Sector Skip

In the event of a corrupt or failing disk, ActiImage Protector™'s Bad Sector Skip function will ignore bad or unreadable sectors, allowing you to back up and recover data in the remaining good sectors.

Provided By:



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